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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/662,306

09/16/2003

Kiyoshi Tagami

392.1817

1771

21171

7590

01/27/2005

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EXAMINER

PHAM, LEDA T

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary**Application No.**

10/662,306

Applicant(s)

TAGAMI ET AL.

Examiner

Leda T. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>9/16/03, 12/20/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of group I, claims 1 - 3 in paper filed on 12/29/04 is acknowledged.

Claims 4 - 7 are canceled.

Since Applicant did not provide any traversal arguments to the restriction requirement, the response is considered as election without traverse; therefore, the election/restriction is made FINAL.

Drawings

1. Figures 5 - 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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3. Claims 1 –3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pallaro (U.S. 4,403,162) in view of Takashi (JP 54-132701).

Regarding to claim 1, Pallaro teaches an electric motor (figure 1) comprising:

a stator core (10) having slots (14);

coils (22, 24) arranged along the slots of said stator core to form coil edges projecting from ends of said stator core (10); and

insulation sheets (26) for insulating proximal portions of the coil edges, each of said insulation sheets (26) having a folding portion (28, folding around coils 22, 24) for folding one or more coils of the same phase (running winding phase, and starter winding phase) and inserting portions (32) inserted into the slot or slots (14) of said stator core. However, Pallaro does not teach the inserting portion (32) fixed by drawing distal ends (the two end of portion 30) from inside of said stator core.

Takashi teaches an electric motor having insulation sheet (23) with inserting portions inserted into slots of stator core by drawing distal ends (321) from inside of stator core to make formation of coil can be facilitated.

Thus, it would have been obvious to one having skill in the art at the time the invention was made to modify the Pallaro's insulation with inserting portion inserted into slot by drawing distal ends from inside of stator core as taught by Takashi. Doing so would make insulation to be sure, and improve the reliability of electric motor.

Regarding to claim 3, Pallaro teaches the electric motor wherein an interconnecting portion between the folding portion (28) and the insertion portions (32) of said insulation sheet

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has a reduced width to form a constricted portion (the connecting portion between 28 and 32, figure 3).

Regarding to claim 2, Pallaro teaches an electric motor (figure 1) comprising:

a stator core (10) having slots (14);

coils (22, 24) arranged along the slots (14) of said stator core (10) forming coil edges projecting from ends of said stator core (10); and

insulation sheets (28) for insulating proximal portions of the coil edges, each of said insulation sheet having a folding portion (28, folding around coils 22, 24) for folding one or more coils of the same phase (running winding phase, and starter winding phase) and two inserting portions (32) extending from the folding portion (28) so that respective distal ends (the two outward end of 30) are positioned away from a centerline of the folding portion,

wherein the coils of the same phase are folded by the folding portions of said insulation sheets, and the inserting portions are inserted into the slots of said stator core. However, Pallaro does not teach the inserting portion (32) fixed by drawing distal ends (the two end of portion 30) from inside of said stator core.

Takashi teaches an electric motor having insulation sheet (23) with inserting portions inserted into slots of stator core by drawing distal ends (321) from inside of stator core to make formation of coil can be facilitated.

Thus, it would have been obvious to one having skill in the art at the time the invention was made to modify the Pallaro's insulation with inserting portion inserted into slot by drawing distal ends from inside of stator core as taught by Takashi. Doing so would make insulation to be sure, and improve the reliability of electric motor.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leda T. Pham whose telephone number is (571) 272-2032. The examiner can normally be reached on M-F (8:30-6:00) first Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leda T. Pham
Examiner
Art Unit 2834

LTP
January 12, 2005


DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800